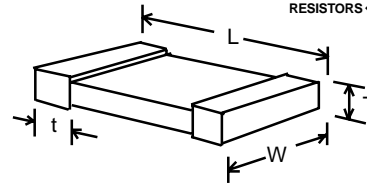


# MULTILAYER CERAMIC CHIP CAPACITORS

## CE SERIES



RESISTORS • CAPS & COILS • DELAY LINES



### FEATURES

- Miniature size
- Wide range of capacitance, tolerance, TC, and voltage
- High reliability, long life
- Excellent frequency response
- Available on 8mm and 12mm T&R
- Through-hole styles available (series CEA, CER)

### SPECIFICATIONS

RCD Type CE	Voltage (V)	3 Digit Capacitance Code (pF)		
		COG	X7R	Z5U/Y5V
0402	16	--	101-223	102-104
	25	1R0-471	101-103	102-223
	50	1R0-221	101-392	102-153
0603	25	R50-102	101-333	222-224
	50	R50-821	101-223	222-154
	100	R50-561	101-472	--
	200	R50-331	--	--
0805	25	R50-332	331-104	103-105
	50	R50-222	331-473	103-684
	100	R50-102	331-223	103-224
	200	R50-821	222-153	--
	500	R50-471	222-123	--
1206	25	R50-472	102-224	103-125
	50	R50-392	102-104	103-105
	100	R50-152	102-683	--
	200	R50-102	221-223	--
	500	R50-821	221-233	--
	1000	R50-471	221-472	--
1210	25	R50-682	680-102	--
	25	561-103	102-334	104-155
	50	561-682	102-224	104-155
	100	561-472	102-104	104-105
	200	101-472	102-683	--
	500	101-222	222-473	--
	1000	101-102	102-153	--
1812	2000	101-561	181-152	--
	25	102-153	103-474	154-335
	50	102-103	103-334	154-225
	100	102-103	103-224	104-105
	200	102-682	682-104	--
	500	151-562	472-124	--
	1000	151-472	222-273	--
2225	2000	151-222	331-332	--
	25	151-681	103-105	684-475
	50	102-223	103-105	684-335
	100	102-103	103-474	--
	200	102-822	153-424	--
	500	102-562	183-494	--
	1000	102-332	822-104	--
3035	2000	102-222	122-103	--
	25	102-104	103-225	105-106
	50	102-473	103-225	105-685
	100	102-333	103-105	--
	200	102-223	103-125	--
	500	102-183	682-105	--
	1000	102-822	--	--
2000	102-122	--	--	

### DIMENSIONS

Size	L	W	T	t
0402	.040±.003[1.00±0.07]	.020±.002[0.5±0.05]	.02±.002[.5±.05]	.004±.002[.1±.05]
0603	.063±.004[1.6±0.1]	.031±.004[0.8±0.1]	.031±.004[.8±.1]	.012±.004[.3±.1]
0805	.079±.008[2.00±0.2]	.049±.008[1.25±0.2]	.061[1.55] Max.	.02±.01[.5±.25]
1206	.126±.012[3.2±0.3]	.063±.008[1.6±0.2]	.058[1.47] Max.	.02±.01[.5±.25]
1210	.126±.012[3.2±0.3]	.098±.012[2.5±0.3]	.057[1.8] Max.	.028±.01[.7±.25]
1812	.177±.016[4.5±0.4]	.126±.012[3.2±0.3]	.098[2.5] Max.	.039±.01[1.00±.25]
2225	.224±.02[5.7±0.5]	.251±.02[6.4±0.5]	.098[2.5] Max.	.039±.008[1.00±.2]
3035	.299±.02[7.6±0.5]	.354±.02[9.00±0.5]	.118[3.0] Max.	.039±.008[1.00±.2]

### DIELECTRIC CHARACTERISTICS

Item	COG (NPO)	X7R (B)	Z5U (E)/Y5V(F)
Operating Temperature Range	-55°C to +125°C	-55°C to +125°C	Z5U: +10°C to +85°C Y5V: -55°C to +125°C
Aging Rate	0%	2% Max. per decade hour	7% Max. per decade hour
Dissipation Factor (DF)	0.1% Max. Δ .02% Typical	3% Max. Δ .8% Typical	4% Max. Δ 2% Typical
Insulation Resistance (IR)	1000MΩ/μF or 100G, whichever is less	1000MΩ/μF or 100G, whichever is less	100MΩ/μF or 10G, whichever is less
Resistance to Soldering Heat	2.5% Max. Δ	5% Max. Δ	-10 to 20% Max. Δ
Dielectric Withstanding Voltage	2.5 X VDCW	2.5 X VDCW	2.5 X VDCW
Test Parameters	≤ 100pF: 1MHz, 1V±.2Vrms, 25°C >100pF: 1KHz, 1V±.2Vrms, 25°	1KHz, 1V±.2Vrms, 25°	1KHz, 0.5Vrms, 25°

SIZE	STANDARD PACKAGING			
	T	TE	C	B
0402	10000	--	20000	2000
0603	5000	2500	15000	2000
0805	5000	2500	10000	2000
1206	5000	1000	5000	2000
1210	2500	*	*	500
1812	1000	*	*	500
2225	*	*	*	500
3035	*	*	*	500

\*Consult factory for availability

### P/N DESIGNATION:

CE 1206 - 103 - K 201 R T

RCD Type

Chip Size: 0402, 0603, 0805, 1206, 1210, 1812, 2225, 3035

Option Code (if assigned by RCD)

3-Digit Capacitance Code in pF: 2 significant digits and multiplier (102=1000pF, 105=1,000,000pF)

Tolerance: F=1%, G=2%, J=5%, K=10%, M=20%, Z=+80%/-20%, B=±0.1pF, C=±0.25pF, D=±0.5pF

3-Digit Voltage Code: 010=10, 101=100, 102=1000

Temperature Characteristic: G=COG, R=X7R, U=Z5U, V=Y5V

Packaging: B=Bulk, T=7" reel, paper tape, TE=7" reel, plastic tape, C=Cartridge

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Faxxxx specifications subject to change without notice